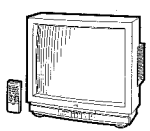
JVC

INSTRUCTIONS

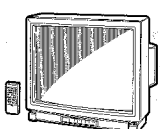
AV-26CM3
AV-27BM3/AV-27CM3

COLOR MONITOR/RECEIVERS

MASTERCOMMAND



AV-26CM3



AV-27BM3
AV-27CM3

For Customer Use:
Enter below the Model No. and Serial No. which are located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

28. 27M3U-IBA-A

(No.50718) 1-1

OPERATING INSTRUCTIONS

JVC COMPANY OF AMERICA
DIVISION OF US JVC CORP.
41 Slater Drive, Elmwood Park, N.J. 07407

28. 27M3U-IBA-A
Ⓐ 1

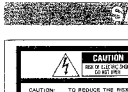
Thank you for purchasing a JVC color monitor/receiver (TV). Your JVC TV carries many useful features including the MASTER COMMAND system which allows operation of all TV functions via a single remote control unit.
To ensure your complete understanding, please read all instructions in this booklet before operation.

This instruction manual is written commonly for the AV-26CM3, AV-27BM3 and AV-27CM3 models; there are some sections where the AV-26CM3 model only is exemplified.

FEATURES

- **FS (Full-Square) picture tube.**
- **Comb filter for improved picture quality.**
- **180-Channel cable-compatible frequency synthesizer tuner with built-in MTS decoder.**
- **S-video input terminal for taking full advantage of Super VHS.**
- **Surround sound capability with external speaker terminals.**
- **Video/audio input and variable audio output terminals.**
- **MASTER COMMAND remote control with multi-color on-screen "Menu" display, allowing interactive, total TV operation.**
- **On-screen displays are available in English or Spanish.**
- **The current time (24-hour format) can be displayed on the screen.**
- **The TV can be automatically switched on and off at preset times each day.**
- **Picture and sound tone adjustments can be made.**
- **When receiving vacant broadcast channels, blue-blank screens and muted sound can be set.**

SAFETY PRECAUTIONS


CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

Caution:
Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

CAUTION: TO INSURE PERSONAL SAFETY OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Caution:
When you don't use this TV set for a long period of time, be sure to disconnect the power plug from the AC outlet for your safety. If the TV set is plugged into an AC outlet, a small amount of current is applied to the TV set even if the TV set's power is turned off.

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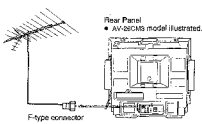
INSTALLATION

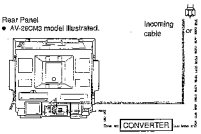
ANTENNA CONNECTIONS

An outdoor antenna is recommended for good TV picture reception. (For installation of the outdoor antenna system, consult your local dealer.)

VHF/UHF outdoor antenna



CABLE TV CONNECTIONS



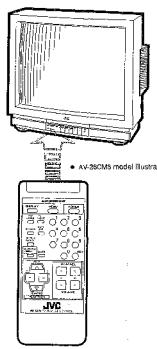
- Some cable companies require a converter box to receive all available programs. Others may require it for subscription or "premium" programming. Consult your local cable company for correct installation.
- When connecting both a cable (75-ohm coaxial) and a UHF antenna (300-ohm feeder), use the optional antenna mixer (CE41487) to make a single connection.

Note: With this antenna mixer, reception of cable channels higher than "Channel W + 17" is not possible.

REMOTE CONTROL USE

CORRECT USE

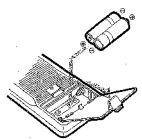
- Point to the Remote Control sensor of the TV set.
- The maximum operable distance is approximately 23 ft (7 meters) from the Remote Control sensor, and no more than 30° to either side of center.
- Operation of the Remote Control is most effective when there is nothing between it and the Remote Control sensor.
- Duration of the batteries is approximately 6 months to 1 year. (Duration varies depending on frequency of use.) Replace the batteries when the remote operation becomes unstable.



BATTERY INSTALLATION/NOTES

- Press the tab and lift up the cover in the direction of the arrow.
- Correctly install the batteries, observing (+/−) polarities as shown.
- Do not use a combination of old and new batteries or batteries of different types.
- If the batteries become exhausted, remove and replace them soon.
- If the Remote Control will not be used for more than 2 weeks, remove the batteries.
- When battery leakage occurs, clean the battery compartment with a soft cloth and replace the batteries.

■ The batteries provided might become exhausted earlier than specified on the left if they have deteriorated. If the Remote Control does not operate, replace the batteries with new ones.



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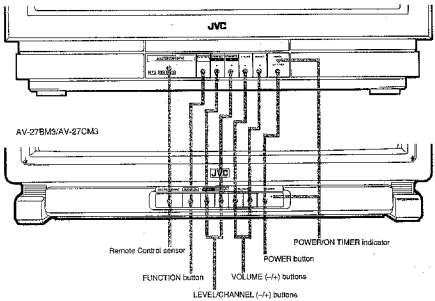
AV-27RM3
AV-27CM3

CONTROLS AND THEIR LOCATIONS

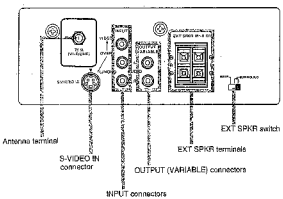
FRONT PANEL

AV-28CM3



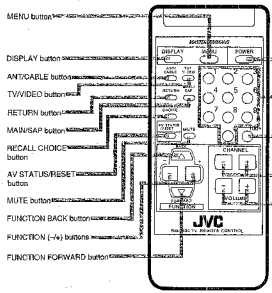
REAR PANEL

- The controls and their locations shown below are all common in the AV-28CM3, AV-27BM3 and AV-27CM3 models.



REMOTE CONTROL UNIT

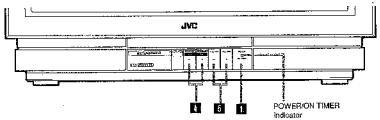
- The controls and their locations shown below are all common in the AV-28CM3, AV-27BM3 and AV-27CM3 models.



* The above POWER button and VOLUME (–/+) buttons have the same functions as the corresponding buttons on the front panel.

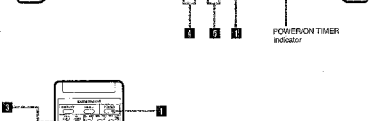
TV OPERATION

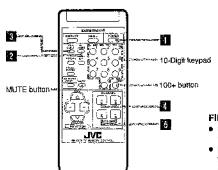
AV-26CM3



AV-27BM3/AV-27CM3

- Only the AV-26CM3 model's illustrations are exemplified after this section.





FIRST PREPARATIONS

- **Connect either Antenna or Cable TV** by following "Installation" instructions on page 4.
- **Insert batteries into the Remote Control unit** by following "Remote Control Use" instructions on page 5.
- **Connect the power cord to 120 V, 60 Hz AC outlet.** The power cord is supplied with a polarized plug. Therefore, it will only insert one way into the wall outlet. DO NOT DEFEAT THE POLARIZED PLUG. If you have difficulty, consult your local dealer.

BASIC OPERATING PROCEDURE

1 **Press the POWER button** on either the Remote Control or front panel. The POWER/ON TIMER indicator lights. Press this button again to turn power off.

Note: If the POWER/ON TIMER indicator remains lit even after the power is turned off, it shows the ON TIMER is in operation. See "5. DUAL ON TIMER" on page 21 and "7. HOME SITTER" on page 24.

2 **Press the TV/VIDEO button** on the Remote Control to select the TV mode.

Note: For mode selection using the front panel controls, see "FUNCTION BUTTONS" on page 12.

3 **Press the ANT/CABLE button** on the Remote Control to select the broadcast mode. Each time it is pressed, the mode is switched between "CHANNEL" and "CABLE". When connected to an antenna, select "CHANNEL" mode for normal VHF/UHF reception. When connected to cable TV, select "CABLE" mode. The on-screen display will show the following:

Note: For mode selection using the front panel controls, see "FUNCTION BUTTONS" on page 12.

4 **Select desired channel** using the CHANNEL (–/+) buttons on the Remote Control (or LEVEL/CHANNEL (–/+) buttons on the front panel). Pressing the (+) button advances to higher channels, (–) button to lower channels.

Note: Certain channels have been preset at the factory. It may be necessary to add or erase some channels in your areas. See "5. INITIAL SET-UP" on page 28 for presetting channels.

- Channels can be selected directly by using the 10-digit keypad on the Remote Control. For example, if you select channel 5, press "0" first, then press "5". (Be sure to press "0" first, before pressing "5" for channel 5.) For cable channels of 3-digit numbers, use the 100+ button. For example, if selecting channel 120, press the 100+ button first, then press "2", then "0". Also refer to the "CABLE TV CHANNEL CONVERSION CHART" on page 11.

Notes:
- When a video source such as a VCR is connected to the antenna terminal to be viewed on Channel 3 (or Channel 4), sometimes channel selection may result in an unclear or distorted picture. In this case, re-select Channel 3 (or 4) and the picture will become clear. (Also in this case, be sure to press "0" first, before pressing "3" (or "4") for Channel 3 (or Channel 4).)
- In the VIDEO mode, if either CHANNEL (–/+) button is pressed, the mode is switched to the TV mode.

5 **Press the VOLUME (–/+) buttons** on either the Remote Control or front panel to adjust volume to your desired listening level. Pressing the (+) button will increase sound volume, the (–) button will decrease sound volume. The volume level is indicated on the screen by reference number (0 to 50) and by bar scale as shown.

Note: The volume level can be made minimum instantly by pressing the MUTE button on the Remote Control. See "MUTE button" on page 33.

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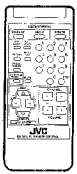


ON-SCREEN DISPLAY

- On-screen display illustrations in this instruction manual are in English indication mode. For Spanish indications, refer to the "SPANISH ON-SCREEN DISPLAY REFERENCE TABLE on pages 42 and 43, with reference numbers [①] to [⑨] specified for each on-screen illustration. See **ON-SCREEN LANGUAGE** on page 31 for changing the language mode.

(When in English indication mode)

(When in Spanish indication mode)

- Once the on-screen display appears on the screen, it disappears in a few seconds. (Only the clock time and channel number can be kept displayed on the screen. See "DISPLAY button" on page 33.)

- When tuned to a channel where no program is being broadcasted, the on-screen display may be unclear or blurred.
- On-screen displays are available in two different layouts (except for displays of the channel number and clock time). See "9. INITIAL SET-UP" on page 28 for selecting the display mode.

(With a black background)

(Without a black background)

- Channel numbers of the "CHANNEL CAPTION channels" can be displayed with their station call letters. If you prefer to do so, enter the station call letters when you program the "CHANNEL CAPTION channels". See "1. CHANNEL CAPTION" on page 17.

CABLE TV CHANNEL CONVERSION CHART

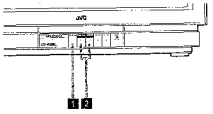
In addition to normal TV reception from an antenna for VHF (Channels 2 to 13) and UHF (Channels 14 to 69), your TV set is equipped to receive non-scrambled cable TV channels. Sub-mid band (A-8, A-4 to A-1), Mid band (A to I), Super band (J to W), Hyper band (W+1 to W+28) and Ultra band (W+29 to W+84) can be received by using the channel selections as shown in the following chart.

Note: Reception of channel A-5-("95" of the TV set's on-screen CABLE channel numbers) is not recommended for your TV set.

*	**	*	**	*	**	*	**
A-8	01	W+1	97	W+29	65	W+57	93
A-4	98	W+2	98	W+30	66	W+58	94
A-3	97	W+3	99	W+31	67	W+59	100
A-2	98	W+4	40	W+32	68	W+60	101
A-1	99	W+5	41	W+33	69	W+61	102
A	14	W+6	42	W+34	70	W+62	103
B	15	W+7	43	W+35	71	W+63	104
C	16	W+8	44	W+36	72	W+64	105
D	17	W+9	45	W+37	73	W+65	106
E	18	W+10	46	W+38	74	W+66	107
F	19	W+11	47	W+39	75	W+67	108
G	20	W+12	48	W+40	76	W+68	109
H	21	W+13	49	W+41	77	W+69	110
I	22	W+14	50	W+42	78	W+70	111
J	23	W+15	51	W+43	79	W+71	112
K	24	W+16	52	W+44	80	W+72	113
L	25	W+17	53	W+45	81	W+73	114
M	26	W+18	54	W+46	82	W+74	115
N	27	W+19	55	W+47	83	W+75	116
O	28	W+20	56	W+48	84	W+76	117
P	29	W+21	57	W+49	85	W+77	118
Q	30	W+22	58	W+50	86	W+78	119
R	31	W+23	59	W+51	87	W+79	120
S	32	W+24	60	W+52	88	W+80	121
T	33	W+25	61	W+53	89	W+81	122
U	34	W+26	62	W+54	90	W+82	123
V	35	W+27	63	W+55	91	W+83	124
W	36	W+28	64	W+56	92	W+84	125

*: Regular cable channel designations
**: Your TV set's corresponding on-screen CABLE -channel numbers

FUNCTION BUTTONS



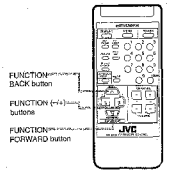
The FUNCTION button on the front panel selects the control modes for TV operation and picture adjustment.

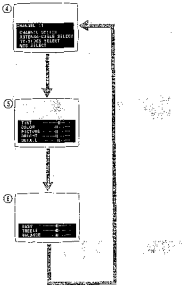
1 Press the FUNCTION button on the front panel. The first time it is pressed, the following display appears on the screen.

(At this time, the top line shows the current channel number.)

- Press the FUNCTION button to select the desired item for adjustment. Each time the FUNCTION button is pressed, the yellow-colored portion shifts in the order below to show that the colored item in the list can be adjusted.

(Three pages of on-screen displays are available with the FUNCTION button.)





① CHANNEL SELECT mode
② ANTENNA/CABLE SELECT mode
③ TV/VIDEO SELECT mode
④ MTS SELECT mode
⑤ TINT adjustment mode
⑥ COLOR adjustment mode
⑦ PICTURE adjustment mode
⑧ BRIGHT adjustment mode
⑨ DETAIL adjustment mode
⑩ BASS adjustment mode
⑪ TREBLE adjustment mode
⑫ BALANCE adjustment mode

Note: The Remote Control's FUNCTION BACK button or FORWARD button selects **only picture and sound adjustment modes: TINT, COLOR, PICTURE, BRIGHT, DETAIL, BASS, TREBLE and BALANCE.** The other control modes can be selected directly with the Remote Control's respective buttons. Pressing the FUNCTION FORWARD button advances the colored portion in the order as shown above for "Picture/Sound adjustment modes", pressing the FUNCTION BACK button advances in the reverse order.

2 After selecting the desired mode, **press the LEVEL/CHANNEL (–/+) buttons** on the front panel or FUNCTION (–/+) buttons on the Remote Control while the selected mode indication is being displayed to make your preferred adjustment. The Remote Control's FUNCTION (–/+) buttons control **only picture and sound adjustments.**

Notes:

- When using the front panel buttons, before the FUNCTION button is pressed for the first time with nothing displayed on the screen, the TV is in the "CHANNEL SELECT" mode. Therefore, in this mode, channel selection is possible by pressing the LEVEL/CHANNEL (–/+) buttons on the front panel.
- After completing picture adjustments from the Remote Control, selecting either the FUNCTION (–) or (+) button will return directly to the last chosen adjustment mode.

Continued on next page →

(No.50718) 1-7

AV-27BM3
AV-27CM3

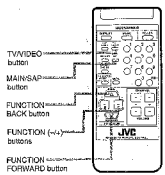
LEVEL/CHANNEL (–/+) buttons

① CHANNEL SELECT mode

In this mode, press the LEVEL/CHANNEL (+) button on the front panel to scan up the channel, and press (–) button to scan down the channel.
(The screen illustrations below show the case when the TV is in the "CHANNEL" mode. When in the "CABLE" mode, the "CABLE" indication appears instead of "CHANNEL".)

② ANTENNA/CABLE SELECT (broadcast) mode

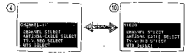
In this mode, press the LEVEL/CHANNEL (–/+) buttons on the front panel to change the broadcast mode between "CHANNEL" (for regular VHF/UHF channels) and "CABLE" (for cable channels).



③ TV/VIDEO SELECT mode

In this mode, press the LEVEL/CHANNEL (–/+) buttons on the front panel to switch the mode between "TV" (for off-air or cable TV broadcasts) and "VIDEO" (for video source which is connected to the TV set's INPUT connectors or S-VIDEO IN connector). See "CONNECTING TO EXTERNAL EQUIPMENT" on page 34.

Note: Mode selection can also be performed with the TV/VIDEO button on the Remote Control.



④ MTS SELECT mode

This TV set incorporates an MTS (Multichannel Television Sound) decoder to receive stereo broadcasts and any accompanying SAP (Second Audio Program), such as bilingual broadcasts.
Available sound will be:
(1) Monaural (MAIN) audio program (regular broadcasts)
(2) Stereo (MAIN) audio program
(3) Second Audio Program (SAP)
In this mode, the "← ON AIR" shows that MTS mode is now being broadcasted. Press the LEVEL/CHANNEL (–/+) buttons to change the reception mode among "STEREO", "SAP" and "MONO".
Each time it is pressed, the color of the indication changes from blue to yellow to show that the mode has just been switched.

Notes:

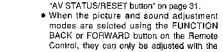
- Mode selection can also be performed with the MAIN/SAP button on the Remote Control. Each time it is pressed, the mode changes in the sequence of "STEREO" — "SAP" — "MONO" — "STEREO".
- If the TV set is always set to stereo mode, when a stereo broadcast is received, stereo sound is output automatically.
- If the received stereo signal is weak, noise may be heard. In such a case, press the LEVEL/CHANNEL (–/+) buttons (or MAIN/SAP button) to engage the MONO mode for better sound reception.
- If the received SAP signal is weak, the SAP will not be heard. Select the MONO mode for better sound reception.
- Even if both stereo and SAP broadcasts are received, both broadcasts cannot be heard at the same time.

When using the TV set for cable reception
Transmission of Cable TV signals may differ from off-air TV broadcasts. It is possible that the multichannel TV sound (MTS) may not be recieved satisfactorily.

⑤ – ⑫ Picture/sound adjustment modes

In these modes, an adjustment scale with a marker appears on the screen. Press the LEVEL/CHANNEL (–/+) buttons on the front panel or FUNCTION (–/+) buttons on the Remote Control to fine adjust each item to your preference according to the chart below. (The center position is only a reference level, rather than a standard setting.)

(–) button	Item	(+) button
Reddish	TINT	Greenish
Subdued	COLOR	Vivid
Light	PICTURE	Strong
Dark	BRIGHT	Bright
Soft	DETAIL	Sharp
Soft	BASS	Strong
Soft	TREBLE	Strong
Left	BALANCE	Right

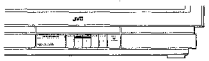


Notes:

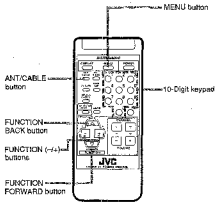
- When you wish to restore all adjustment modes to their scale's center position, use the AV STATUS/RESET button. For details, see "AV STATUS/RESET button" on page 31.
- When the picture and sound adjustment modes are selcted using the FUNCTION BACK or FORWARD button on the Remote Control, they can only be adjusted with the FUNCTION (–/+) buttons on the Remote Control, and cannot be adjusted with the LEVEL/CHANNEL (–/+) buttons on the front panel.

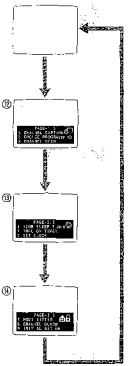
MENU BUTTON

The "MENU" button selects a list of functions that can be programmed for operating the TV more conveniently. This function is possible only from the Remote Control.



- Press the MENU button on the Remote Control to display the list of programmable convenience functions on the screen. The "MENU" consists of 3 pages. Press the MENU button repeatedly to display the pages in the sequence below.
- Press numbers "1" through "9" on the 10-digit keypad to select the corresponding function in the numbered "MENU".





PAGE-1

1. CHANNEL CAPTION

This function allows TV station's call-letters (up to 4 letters each) to be set, and enables them to be displayed with their Programme Channel numbers.

1) Tune to a Programme Channel whose station call-letter you want to set.

2) While the "PAGE-1" Menu display is on the screen, press "1" of the 10-digit keypad.

Note: Pressing the MENU button calls up the list of the station call-letters that have already been registered. This list display disappears in a few minutes and the previous display is restored.

The display will show:

- If 12 sets of station call-letters have already been set, the display shown below appears.

Press "1" (YES) to cancel one of the station call-letters that have already been set. Then, the display shown below appears. Tune to a Programme Channel whose station call-letter you want to cancel by pressing the 10-digit keypad. (Also use the 100+ button and ANT/CABLE button, if necessary.) The station call-letter of the Programme Channel that you tuned to is cancelled.

Finally, press "2" of the 10-digit keypad to clear the "CHANNEL CAPTION" Menu.

3) Press the FUNCTION FORWARD or BACK button to select each of the station call-letters to be stored. Available characters include the alphanumeric characters (26 English-language letters and 10 numerals), plus various punctuation marks (period, comma, etc.). Then, move the cursor to the next letter position by pressing the FUNCTION (+) button on the Remote Control. When you have finished selecting up to 4 call letters, press "1". [For example, if you store the letters "JVC", keep the FUNCTION FORWARD or BACK button pressed until the letter "J" appears. Then, press the FUNCTION (+) button to move the cursor one letter position to the right. Press FUNCTION FORWARD or BACK to select the letter "V", then move the cursor to the right again with FUNCTION (+). In the same way, select "C", then press "1" to end the operation.]

- If " " (space) or "–" (under bar) is entered for any of the 4 call-letters, the station call-letter is not registered.
- Pressing any button on the Remote Control, other than FUNCTION FORWARD, FUNCTION BACK, FUNCTION –, FUNCTION + or "1" of the 10-digit keypad, restores the "CHANNEL CAPTION" setting to its initial condition.

The CAPTION LIST is displayed for a few seconds before disappearing.

4) For setting the station call-letters of other Programme Channels, repeat steps 1) thru 3).

Notes: • Station call-letters can be set for up to 12 stations.
- Regular TV channels are indicated as "CH" and CATV channels are indicated as "CA" on the CAPTION LIST display.

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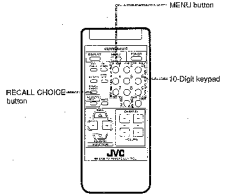
2. CHOICE PROGRAMMING

This function allows up to five Programme Channels which you often view to be stored in memory as "CHOICE" channels. Just by pressing the RECALL CHOICE button, performs automatic scanning of those registered Programme Channels. This also enables a Programme Channel which you want to view among the CHOICE channels to be directly tuned to.

1) While in the channel select mode (either "CHANNEL" or "CABLE" mode), determine the channel you wish to preset as a CHOICE channel and display it on the screen.
(For example, press "0" and "9" to display "CHANNEL 09".)



2) With "PAGE-1" MENU displayed on the screen, press "2" of the 10-digit keypad.
The display will show:

3) Press a number (1 to 5) on the 10-digit keypad for the CHOICE channel number you wish to preset. Then, the following display will appear.
(For example, press "1" for storing "CHANNEL 09" as the "CHOICE 1" channel.)
The CHOICE LIST is displayed for a few seconds.

RECALL CHOICE button

- Pressing the RECALL CHOICE button calls up the "CHOICE LIST", and performs automatic scanning of the "CHOICE" channels. The Programme Channel number of the "CHOICE" channel which is currently being viewed, blinks on the list.

Press the corresponding number of the 10-digit keypad to select the preferred channel.

3. CHANNEL SCAN

This feature allows automatic scanning of the channels which have been stored following the procedures of "9. INITIAL SET-UP" (described on page 28) in ascending order.

1) With "PAGE-1" MENU displayed on the screen, press "3" of the 10-digit keypad.
- All memorized channels (either "CHANNEL" or "CABLE" mode) will now scan sequentially in ascending order beginning with the channel that the TV is tuned to. Scanning will stop automatically when the original channel is reached. "SCAN STOP" appears to show the CHANNEL SCAN mode has finished.

2) Press any button on the Remote Control, if you wish to stop scanning at a certain channel before the original channel is reached.
To resume scanning, press the MENU button and then "3" on the 10-digit keypad.

Notes:
- When the TV is in the "CABLE" mode, the "CABLE" indication appears on the screen instead of "CHANNEL".
- For changing memorized channels, see "9. INITIAL SET-UP".
- If you wish to start CHANNEL SCAN at a specific channel, first select the broadcast mode (CHANNEL or CABLE) and the channel number, and then follow the instructions above.
- While actual CHANNEL SCAN is being performed, all front panel buttons become inoperable.

PAGE-2

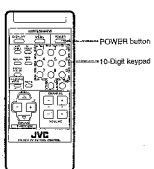
4. 12HR SLEEP TIMER

The "12HR SLEEP TIMER" feature allows you to turn off your TV automatically at a preset time.

1) With "PAGE-2" (or "PAGE-1" or "PAGE-3") MENU displayed on the screen, press "4" of the 10-digit keypad.
The display will show:

- If the built-in clock has not been set to operate properly, the 12HR SLEEP TIMER will not function. In this case, the following display will appear on the screen to show that the clock requires adjustment.

Press "1" (YES) of the 10-digit keypad to adjust the clock. (If "2" (NO) is pressed, the warning message "YOU CANNOT OPERATE SLEEP TIMER!" is displayed.)
Set the built-in clock. (See "5. SET CLOCK" on page 23 for details.) When the clock is adjusted, the message "THANK YOU!" appears. Then, the following display appears to show that the 12HR SLEEP TIMER is now ready to be set.



2) Press the numbers on the 10-digit keypad to set the desired switch-off time. The 12HR SLEEP TIMER can be set for up to 11 hours 59 minutes from the current time.
For example, if it is now 7:00 PM, and you want the TV to switch off automatically at 9:00 PM, press "9", "0" and "0". (The "AM/PM" setting is automatically done.) The selected time of "9:00 PM" appears.
- When you select "1" for hour setting (for example, "1:05 AM"), remember to press "0" first, then press "1", "0" and "5".

3) To cancel the 12HR SLEEP TIMER setting, press the current time (the current time setting of the TV's built-in clock).

Notes:
- If an invalid time is selected (for example: "5:87"), it will be rejected and the 12HR SLEEP TIMER must be reset properly.
- While the 12HR SLEEP TIMER is activated, if the POWER button is pressed to turn the power off and on again, the 12HR SLEEP TIMER will be cancelled.
- While the 12HR SLEEP TIMER is activated, if the power is disconnected (such as in the case of power failure, etc.) and reapplied later, the TV is turned off. When disconnected only for a couple of minutes, the 12HR SLEEP TIMER is reactivated, however, it turns the TV off later than the set time by the amount of time of interruption.
- The 12HR SLEEP TIMER may turn off the TV a little earlier than the preset time.
- When the remaining time reaches 1 minute, the message "GOOD NIGHT!", will be displayed and continue to blink until the power turns off automatically.

5. DUAL ON TIMER

The "DUAL ON TIMER" feature allows you to turn on your TV automatically at a preset time and on specific channels. The DUAL ON TIMER is available for 2 different settings.

With "PAGE-2" (or "PAGE-1" or "PAGE-3") MENU displayed on the screen, press "5" of the 10-digit keypad. The display will show:

- At this time, if the display of "POWER INTERRUPTED/WOULD YOU SET CLOCK FIRST?" (which may appear during the 12HR SLEEP TIMER procedure) appears, it shows that the clock is not operating, and the DUAL ON TIMER will not function. Press "1" (YES) to set the clock. (If "2" (NO) is pressed, the warning message "YOU CANNOT OPERATE DUAL ON TIMER!" is displayed.) Set the clock. (See "5. SET CLOCK" on page 23 for details regarding clock setting.) After the clock has been set, the message "THANK YOU!" appears to show that the clock has just been adjusted and the DUAL ON TIMER is now ready to be set.

Two different settings are possible. Press "1" or "2" to select the setting position. The display will show:

Current setting

Continued on next page →

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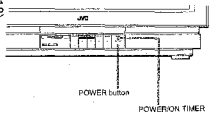
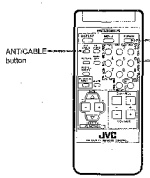




1) SET

Press "1" to start the DUAL ON TIMER for turning the TV on automatically at the preset time shown. "YES" appears to show that the DUAL ON TIMER has started.

2) CANCEL

Press "2" to cancel the setting. "NO" appears to show that the DUAL ON TIMER has been cancelled.

3) CHANGE

Press "3" to re-adjust the setting. Then, the following display appears.

Press the numbers on the keypad to set the desired switch-on time. For example, if you want the TV to switch on automatically for CHANNEL 12 at 7:00 AM, press "7", "0" and "0". (When you select "1" for hour setting, remember to press "0" first, then press "1".) The selected time of "7:00" appears and immediately the display changes to:

Then, press "1" to select the "AM" setting. (Press "2" to select the "PM" setting.) Then, the following display appears. Press "1" and "2" for specifying "CHANNEL 12".

Now the following display appears on the screen to show the DUAL ON TIMER is set to "7:00 AM, CHANNEL 12" with the "YES" indicating the DUAL ON TIMER has started. Finally, press the POWER button to turn the power off. The POWER/ON TIMER indicator remains lit to show that the DUAL ON TIMER is in operation.

Notes:

- If an invalid time is selected (for example: "17:70"), it will be rejected and the DUAL ON TIMER must be reset properly.
- After the DUAL ON TIMER has been properly set, it functions only once for each setting (up to 2 settings are possible) to turn on the TV's power. (It does not operate repeatedly every day at the same time as a serial timer.)
- Once the DUAL ON TIMER turns the TV on automatically, if the TV is not operated in any way, after 2 hours the TV will turn off automatically for safety. A single adjustment, even audio level adjustment or channel selection, will cancel this switch-off function.
- While the DUAL ON TIMER is activated, if the power is disconnected (such as in the case of power failure, etc.) and reapplied later, the DUAL ON TIMER is cancelled. When disconnected only for a couple of minutes, the DUAL ON TIMER is reactivated, however, it turns the TV on later than the set time by the amount of time of interruption.
- If the channel which has already been set as a "Guarded Channel" is selected, that channel is rejected and cannot be set for the DUAL ON TIMER. (For details of the Guarded Channels, refer to page 28.)

6. SET CLOCK

Your TV has a built-in clock. Set the clock as follows:

1) With "PAGE-2" (or "PAGE-1" or "PAGE-3") MENU displayed on the screen, press "8" of the 10-digit keypad. The display will show:

2) Then, press the numbers on the 10-digit keypad to set the current time. For example, if the present time is 7:35 PM, press "0", "7", "3" and "5" (or press "7", "3" and "5"). Then, the display changes to:

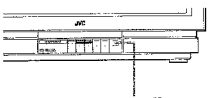
3) Press "2" to select the "PM" setting. (Press "1" to select the "AM" setting.) Then, the display changes to the following to show the current time is set and the clock starts operating.

Notes:

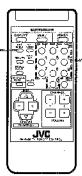
- If an invalid time is selected (for example: "17:70"), it will be rejected and the built-in clock must be reset properly.
- If you wish to set the clock precisely in step 3) above, press "2" (or "1") at the same instant as a time signal.
- The built-in clock may loose time depending on the manner in which the TV is used or the frequency of the power source. If the time difference becomes great, re-adjust the clock.
- If the power is disconnected (such as in the case of a power failure, etc.), and reapplied later, the clock will stop operating. (The clock status can be checked on screen. Press the DISPLAY button. If the clock has stopped, the message "CLOCK NOT SET" is displayed instead of the current time. See "DISPLAY button" on page 33 for detail.) When disconnected only for a couple of minutes, the clock is reactivated, however, it will be later than the actual time by the amount of time of interruption.

7. HOME SITTER

The "HOME SITTER" feature enables the TV to be turned on and off automatically at preset times every day.
With "PAGE-3" (or "PAGE-1" or "PAGE-2") MENU displayed on the screen, press "7" of the 10-digit keypad. The display will show:



- At this time, if the display of "POWER INTERRUPTED/WOULD YOU SET CLOCK FIRST?" appears, it shows that the clock is not operating, and the HOME SITTER will not function.
  Press "1" (YES) to set the clock. (If "2" (NO) is pressed, the message "YOU CANNOT OPERATE HOME SITTER!" is displayed.)
  Set the clock. (See "SET CLOCK" on page 23 for details regarding clock setting.) After setting the clock, the message "THANK YOU!" appears to show that the clock has just been adjusted and the HOME SITTER is now ready to be set.



1) SET
Press "1" to place the HOME SITTER in standby. The ON/OFF time and channel number which have been previously set will be displayed. When the POWER button is pressed to turn the TV off, the POWER/ON TIMER indicator lights and "YES" appears on the screen to show that the HOME SITTER is in operation.

2) CANCEL
Press "2" to cancel the HOME SITTER. "NO" appears to show that the HOME SITTER has been cancelled.

3) CHANGE
Press "3" to re-adjust the HOME SITTER setting. Follow the on-screen displays to set the switch-on time, switch-off time and channel number, using the 10-digit keypad.

Set the switch-on time.

Select "AM" or "PM".

Set the switch-off time.

Select "AM" or "PM".

Set the channel number.

When the channel number is set, the display will show:

- This display shows that the HOME SITTER is set to switch the TV on at 1:30 PM, switch it off at 2:30 PM and the channel to be received is "CABLE 13".

Notes:
- If an invalid time or channel number is selected, it will be rejected and it must be reset properly.
- If you wish to reset the switch-on time only, stop keying in data (waiting until the on-screen display disappears) after keying in the AM/PM setting, or press keys other than the 10-digit keypad. And, if you wish to reset the switch-on and switch-off time only, the procedure is the same.
- The function that automatically turns the TV off for the ON TIMER, if no TV operation is performed after 2 hours, does not operate for the HOME SITTER.
- If the power is disconnected (such as in the power failure, etc.), and reapplied later, the HOME SITTER will be cancelled. When disconnected only for a couple of minutes, the HOME SITTER is reactivated, however, it turns the TV on and off later than the set time by the amount of time of interruption.
- If the channel which has already been set as a "Guarded Channel" is selected, that channel is rejected and cannot be set for the HOME SITTER. (For details of the Guarded Channels, see next page.)

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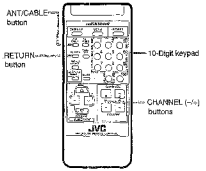
LEVEL/CHANNEL (–/+) buttons



8. CHANNEL GUARD

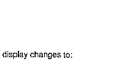
The "CHANNEL GUARD" feature allows you to assign an "ID number" to specific channels of your choice, making them "Guarded Channels". This prevents these specific channels from being selected, unless the "ID number" is keyed in.

First select a channel you wish to set as a Guarded Channel. With "PAGE-3" (or "PAGE-1" or "PAGE-2") MENU displayed on the screen, press "8" of the 10-digit keypad. The display will show:

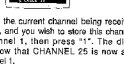
Then, press "0". The display changes to:

- Channel numbers displayed are the Guarded Channels, if already previously set.

1) SET
Press "1". The display changes to:



For example, if the current channel being received is "CHANNEL 25", and you wish to store this channel as Guarded Channel 1, then press "1". The display changes to show that CHANNEL 25 is now set as Guarded Channel 1.



2) CANCEL
Press "2" to cancel the Guarded Channel. The display will show:

With this display on the screen, press the number of the Guarded Channel you wish to cancel from the list. For example, if you wish to cancel CHANNEL 25 (in this case, Guarded Channel 1) from the list, press "1". Then the display changes to show that CHANNEL 25 (Guarded Channel 1) has been cancelled.

3) SET ID NO.
Press "3" to set the ID number. The display will show:

Press any 3 digits you wish to be the ID number. When completed, "ENTERED" appears to show that the ID number you have just keyed in is set.

Viewing Guarded Channels

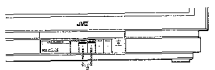
1) Select the Guarded Channel. (If the Guarded Channel you wish to view is CHANNEL 25, press "2" and "5".) Then, the following display appears:

2) Key in the ID number using the keypad. The channel appears.
3) If the keyed-in ID number is incorrect, the display shows:

And the Guarded Channel you have selected cannot be seen.

Notes:

- If you wish to change the ID number, follow the "3) SET ID NO.".
- If the power is disconnected (such as in the case of power failure, etc.), and reapplied later, the ID number is reset to "000".
- When performing the RECALL CHOICE or CHANNEL SCAN function, or selecting channels using the CHANNEL (–/+) buttons, the Guarded Channels are skipped.
- In the following cases, the Guarded Channel can be seen without keying in the ID number:
  - When you press the RETURN button from a channel which has been selected immediately after viewing a Guarded Channel.
  - When you press the ANT/CABLE button from a channel of a different broadcast mode (CHANNEL or CABLE) which has been selected immediately after viewing a Guarded Channel.
  - When you press the CHANNEL (–/+) buttons on the Remote Control or LEVEL/CHANNEL (–/+) buttons on the front panel, while in the MANUAL PROGRAM mode of the INITIAL SET-UP (on MENU PAGE-3). If the selected channel which has already been ADDed happens to also be a Guarded Channel.
  - When you press "4" (CHANNEL UP) or "5" (CHANNEL DOWN) of the 10-digit keypad while in the MANUAL PROGRAM mode of the INITIAL SET-UP, if the Guarded Channel happens to also be the next higher or lower channel following the one to which you are presently tuned.
  - While in the AUTO PROGRAM mode of the INITIAL SET-UP, if the AUTO PROGRAM is interrupted immediately when a Guarded Channel appears.
  - When the channel which has already been set for the ON TIMER or HOME SITTER is set as a Guarded Channel.
- If you forgot the ID number which you have set, reset it.



LEVEL/CHANNEL (–/+) buttons

9. INITIAL SET-UP

The INITIAL SET-UP feature allows you to perform basic settings for the TV status. This consists of Channel Memory (Auto/Manual), Message Style, Noise Mute, Set-Up AV Status and On-Screen Language.

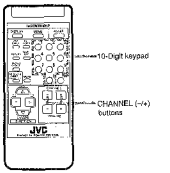
Note: When performing Channel Memory (MANUAL PROGRAM), select an appropriate broadcast mode (either "CHANNEL" or "CABLE") before you select the INITIAL SET-UP mode.

With PAGE-3 (or PAGE-1 or PAGE-2) MENU displayed on the screen, press "3" of the 10-digit keypad. The "INITIAL PAGE-1/2" of the "9. INITIAL SET-UP" Menu is called up on the screen. Another press of "9" (or MENU) calls up the "INITIAL PAGE-2/2". One more press of "9" (or MENU) again restores the regular mode.

Press appropriate 10-digit keypad to select the item.

1) AUTO PROGRAM

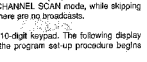
This function allows memorizing the channels automatically to match the TV broadcasts and cable channels of your area. The memorized channels can be selected by the CHANNEL (–/+) buttons on the Remote Control or LEVEL/CHANNEL (–/+) buttons on the front panel, or in the CHANNEL SCAN mode, while skipping channels where there are no broadcasts.



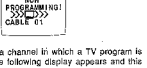
10-Digit keypad

CHANNEL (–/+) buttons

Press "1" of the 10-digit keypad. The following display will appear and the program set-up procedure begins automatically.



When tuned to a channel in which a TV program is broadcasted, the following display appears and this channel is memorized.



When the AUTO PROGRAM procedure (scanning and memorizing) is completed, it will be indicated by the following display.

Notes:

- If the broadcast signals are weak, the channel may not be memorized. In this case, perform the MANUAL PROGRAM procedure.
- The AUTO PROGRAM procedure takes approximately 2 minutes. If you wish to stop this procedure, press any button on the Remote Control.

2) MANUAL PROGRAM

Similar to the AUTO PROGRAM function above, this is for memorizing channels, but it is performed manually. The result of Manual Programing is also effective when performing up/down channel selection or CHANNEL SCAN.

Press "2". The display will show:

The current tuned-in channel

Simply follow the on-screen instructions.

Note: First select the broadcast mode before entering this MANUAL PROGRAM mode.

(1) Press "1" (ADD) to add this channel in memory. A bar "–" will appear between the broadcast mode (CHANNEL or CABLE) and the channel number to show that the channel has been memorized.

(2) Press "2" (ERASE) to erase this channel from memory. If you do not wish to preset it in memory or if no TV station is broadcasting on it. The bar between the broadcast mode and channel number will disappear.

(3) Press "4" (CHANNEL DOWN) or "5" (CHANNEL UP) to select the next lower or higher channel.

(4) Press "3" (END) when you have stored all the required channels in memory.

(5) When you wish to store channels of the other broadcast mode, select the mode first, then repeat steps (1) thru (4).

- In step (3) above, if selecting channels is difficult, press the CHANNEL (–/+) buttons on the Remote Control.
- Be sure to perform these operations using the Remote Control.

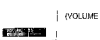
3) MESSAGE STYLE

This function is for switching the black background of the on-screen display on and off (except for channel numbers and clock time).

Press "3". The display will show:

Press "1" to select the on-screen display mode with a black background.

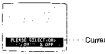
Press "2" to select the on-screen display mode without a black background.



4) NOISE MUTE

The NOISE MUTE feature allows replacing the "snowy" screen of vacant non-broadcast channels with a blue-blank screen, and at the same time, muting the noisy sound.

Press "4". The display will show:



Press "1" to select the Noise Mute mode for a blue-blank screen with no sound.

Press "2" to release the mode. Screen is normal (without blue-blank screen) and sound can be heard.

Note: The Noise Mute mode can be activated only when either no signal is being input or when a weak signal is being received.

- If you wish to view a TV program having a weak broadcast signal, release the Noise Mute mode to prevent it from being activated.
- If you use an antenna system, before adjusting it (extending, rotating, etc.), release the Noise Mute mode to prevent it from being activated when the signal conditions change.
- When playing back VCR recordings or the like, picture and sound muting conditions might continue to occur for a few seconds after engaging the Play mode. Release the Noise Mute mode when necessary.
- When the Noise Mute mode is engaged, it is also applied to the output signals from the OUTPUT (VARIABLE) connectors. Release the Noise Mute mode to prevent it from having effect when connecting external components to the TV.

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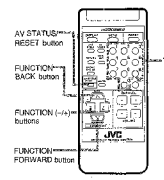


5) SET-UP AV STATUS

Your TV set incorporates the AV STATUS memory that can store 2 variations for preset picture/sound adjustments, allowing you to change the picture/sound tone/speaker balance to your preference depending on each source.

Press "5". The display will show:

(1) Make picture adjustments to your preference. Use the FUNCTION BACK/FORWARD buttons to select the item, and use the FUNCTION (–/+) buttons to adjust each item. If you also wish to make sound adjustments, press "1" to advance the adjustment mode display. The following display will appear. (Press "1" again to return to the picture adjustment display.)

(2) Make sound adjustments to your preference. Use the FUNCTION BACK/FORWARD buttons to select the item, and use the FUNCTION (–/+) buttons to adjust each item. When finished, press "2". The following display will appear.

(3) Press "1" to store the setting as the "AV STATUS A". (Press "2" to store it as the "AV STATUS B".) Then the picture/sound adjustment setting (items and their reference scales) appears for a few seconds.

(4) Repeat steps (1) thru (3) for making another AV STATUS setting.

- When you wish to choose the preset AV STATUS, just press the AV STATUS/RESET button to choose either AV STATUS position. For details, see "AV STATUS/RESET button" on the right.

AV STATUS/RESET button

Use this button for choosing the preset AV STATUS or for resetting the picture/sound adjustment item(s). Press the AV STATUS/RESET button on the Remote Control.
The following display appears.

- Another press of the AV STATUS/RESET button resets all previously adjusted items to their center positions.

1. AV STATUS A

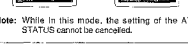
Press "1" of the 10-digit keypad for selecting AV STATUS A. The picture and sound change as preset for "AV STATUS A". Then the picture and sound adjustment settings (items and their reference scales) appear, each for a few seconds.

2. AV STATUS B

Press "2" to select AV STATUS B. The picture and sound change as preset for "AV STATUS B". Then the picture and sound adjustment settings (items and their reference scales) each appear for a few seconds.

3. RESET

Press "3" when you wish to reset all adjusted items (TINT, COLOR, PICTURE, BRIGHT, DETAIL, BASS, TREBLE and BALANCE) back to their center positions at the same time. The on-screen display appears and changes as follows:



Note: While in this mode, the setting of the AV STATUS cannot be cancelled.

6) ON SCREEN LANGUAGE

This television set allows two language options of English or Spanish for on-screen displays.
Press "6". The display will show:

Press "1" to set the language mode of the on-screen indications to English ("ENGLISH" is indicated; "INGLÉS" is indicated in Spanish-language mode).

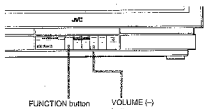
(When setting to picture adjustment display)

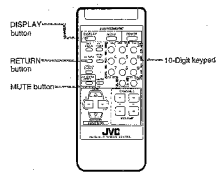
Press "2" to set the language mode of the on-screen indications to Spanish ("SPANISH" is indicated; "ESPAÑOL" is indicated in Spanish-language mode).

(When setting to picture adjustment display)

Note:

- On-screen display illustrations in this manual are in English-language mode. When set to Spanish mode, refer to the "SPANISH ON-SCREEN DISPLAY REFERENCE TABLE" on pages 42 and 43, with reference numbers (1) to (9) specified for each on-screen illustration. See above for language mode selection.





MASTER COMMAND SELF-DEMONSTRATION FEATURE

Your TV has a self-demonstration feature for the incorporated MASTER COMMAND system, demonstrating automatically all major functions of the MASTER COMMAND.

With PAGE-1 (or PAGE-2 or PAGE-3) MENU displayed, press "0" of the 10-digit keypad twice ("0 - 0"), or press the FUNCTION and VOLUME (–) buttons on the front panel simultaneously. The demonstration automatically begins in the following order. If you wish to stop the demonstration anytime while it is running, press any key on the Remote Control or on the front panel.

Demonstration procedure

SET CLOCK*
↓
Picture adjustment ←
↓
RESET (picture adjustment)
↓
MESSAGE STYLE
↓
ON-SCREEN LANGUAGE
↓
CHANNEL CAPTION
↓
CHOICE PROGRAMMING
↓
DUAL ON TIMER
↓
HOME SITTER
↓
CHANNEL GUARD

* This SET CLOCK mode can operate only when the built-in clock is stopped.

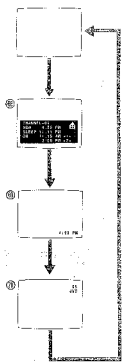
Caution: Operating this function adjusts the clock, timer settings, and all other functions to specific demonstration settings. Therefore, re-adjustment of these settings is required once the demonstration has been executed.

MORE USEFUL FUNCTIONS

DISPLAY button

Press the DISPLAY button on the Remote Control. The channel number of the program you are now viewing, the 12HR SLEEP TIMER/DUAL ON TIMER settings, HOME SITTER setting, and the current time are displayed in the order as shown below with each press of the DISPLAY button. The current time or channel number/call letter display remain on the screen until the DISPLAY button is pressed again.

Note: If the 12HR SLEEP TIMER and/or DUAL ON TIMER and/or HOME SITTER is cancelled, their settings will not be displayed.



RETURN button

Press the RETURN button on the Remote Control.
The previously viewed channel will appear on the screen.
Press RETURN again to switch back to the original channel. Repeatedly pressing RETURN switches between these two channels.

MUTE button

Press the MUTE button on the Remote Control.
The sound of the TV program being viewed will be decreased to minimum and "MUTING" will appear on the screen.
Press again to restore the sound.

Note: Changing the audio volume also restores the sound.

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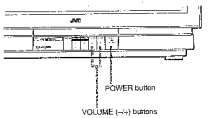
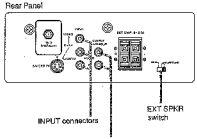
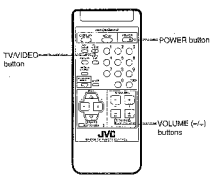
AV-27BM3
AV-27CM3

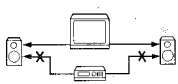
CONNECTING TO EXTERNAL EQUIPMENT





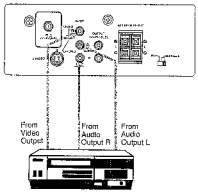


- **Prior to making any connections to your TV set, be sure to turn the POWER OFF.**
- **For a more detailed understanding of each connection, it is recommended that you read the instruction manual for each connected component.**
- **If you use video or audio equipment placed too near the Monitor/Receiver, picture and/or sound may become distorted due to interference between these components. In such a case, separate each piece of equipment to a sufficient distance.**
- **The following shows examples for connecting external equipment.**
- **Do not connect another audio source to the same speaker to which the TV set is connected, otherwise damage may result to the amplifier of the TV set or to that of the other audio source.**

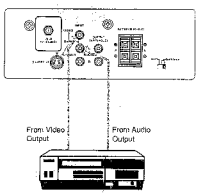


INPUT connectors

- To view a connected video source, press the TV/VIDEO button on the Remote Control to engage the VIDEO mode.

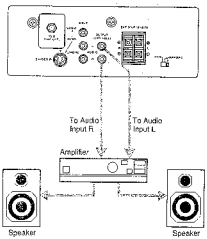


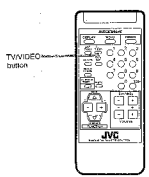
Note: If the connected video equipment outputs monaural audio, connect to the AUDIO L/MONO (left channel) connector. Sound will be output from both right and left speakers.

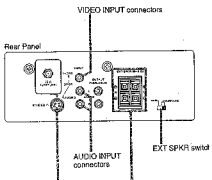


OUTPUT (VARIABLE) connectors

- The audio signals available at these connectors are the same as the audio source of the program being monitored on the TV screen.
- Connect to a stereo amplifier to listen to the sound through external speakers connected to the amplifier. The audio output level can be adjusted via the VOLUME (–/+) buttons on either the Remote Control or front panel.
- If the sound which is output from the TV's built-in speaker is noisy, set the EXT SPKR switch to MAIN, to turn off the sound from the built-in speakers.



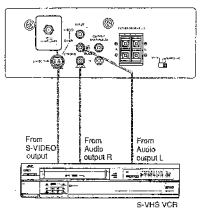




S-VIDEO IN connector

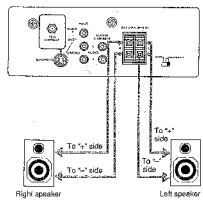
- S-VIDEO IN connector is for the separated Y (luminance) and C (chrominance) video signals conforming to the NTSC system, ideal for connection of an S-VHS (Super VHS) VCR.
- Connect the audio output cable to the AUDIO INPUT connectors.
- Press the TV/VIDEO button on the Remote Control to engage the VIDEO mode to view pictures from the S-VHS VCR.

Note: When equipment is connected to this connector, the VIDEO INPUT connector function becomes inoperable.



Using external speakers

- Connect speaker cables while making sure that the wiring of speaker's polarities is correct.
- Set the EXT SPKR switch to MAIN. The sound from the TV's built-in speakers is turned off, and the sound will be heard only from the speakers which are connected to the EXT SPKR terminals.



Notes:

- Use speakers of 6- to 8-ohm impedance.
- If the "+" and "–" terminals are short-circuited, it may cause damage to the TV set.
- It is recommended to use magnetically shielded speakers. If you use speakers other than these, place them at a sufficient distance from the TV set, otherwise the magnetic field generated from such speakers cause unstable picture color.
- Do not connect another audio source to the same speaker to which the TV set is connected, otherwise damage may result to the amplifier of the TV set or to that of the other audio source.

Setting the EXT SPKR switch

The output sound differs depending on the switch setting.

Switch setting	Sound output	
	Built-in speakers	Speakers connected to the EXT SPKR terminals
MAIN	No sound	Normal sound
SURROUND 1	No sound	Surround effect sound
SURROUND 2	Normal sound	Surround effect sound

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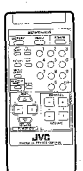
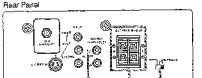
AV-27BM3
AV-27CM3



Rear Panel



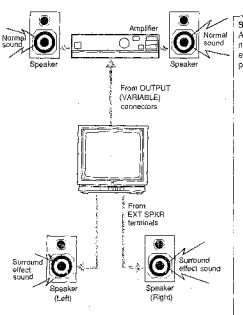
Listening to surround sound

"Surround sound" is a sound reproduction process resulting in a three-dimensional aural experience that is a combination of "surround effect sound" and "normal sound", delivered from both of the left and right channels at the same time.

- The surround effect sound is possible only when the sound source being listened to is stereo. (In the case of monaural sound source, no sound from the speakers connected to the external speaker terminals will be output. Therefore, listening to surround sound is impossible.)
- Set the marker of the scale of the BALANCE adjustment mode to its center position using the FUNCTION button(s) and/or the AV STATUS/RESET button. See pages 12 and 31.

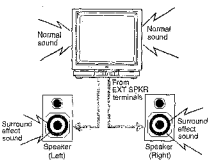
When using an external stereo component system

- Connect each component as illustrated.
- Set the EXT SPKR switch to "SURROUND 1".



When connecting speakers to the EXT SPKR terminals

- Connect speakers to the EXT SPKR terminals.
- Set the EXT SPKR switch to "SURROUND 2".



Speaker positioning

As shown below, position the speakers so that the normal sound can be heard in front and the surround effect sound can be heard in back of the listening position.